

Docket No.: 96790.P197d3
Express Mail #EV339906522US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Fumihiko Kobayashi et al.

Divisional of Serial No.: 10/067,553

For: **OPTICAL SEMICONDUCTOR
DEVICE AND METHOD OF
FABRICATING THE SAME**

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Arlington, VA 22313-1450

Dear Sir:

In accordance with 37 CFR 1.56, Applicant hereby discloses the prior art references that have been submitted and/or cited in the following related applications/patents:

Serial No.	Filing Date	Patent No.	Issue Date
10/067,553	February 4, 2002	---	---
09/027,012	February 18, 1998	6,430,986	June 11, 2002
08/534,333	September 27, 1995	5,783,844	July 21, 1998

Forms PTO-1449 (modified), PTO-1449 and PTO0892 are enclosed herewith. Copies of the references are not provided as permitted by 37 CFR 1.98(d).

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN

Date: 8/26/03

By: E.S. Hyman

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ESH:kla

-2-

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Notice of References Cited		Application No. 09/027,012	Applicant(s) Kobayashi et al.
		Examiner Huy Bui	Group Art Unit 2815
Page 1 of 1			

U.S. PATENT DOCUMENTS

	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS
A	5,346,854	9/13/94	Ahn et al.	437	129
B	4,788,159	11/29/88	Smith	437	90
C	4,335,501	6/22/82	Wickenden et al.	29	569
D					
E					
F					
G					
H					
I					
J					
K					
L					
M					

FOREIGN PATENT DOCUMENTS

	DOCUMENT NO.	DATE	COUNTRY	NAME	CLASS	SUBCLASS
N						
O						
P						
Q						
R						
S						
T						

NON-PATENT DOCUMENTS

	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
U		
V		
W		
X		

Form PTO-1449 (Modified)		Atty Docket No. 96790P197D	Application No. 09/027,012
List of Patents & Publications Statement <i>JAN 25 2001</i>			
(Use several sheets if necessary)		Applicant(s): F. Kobayashi	
		Filing Date: February 20, 1998	Group No.: 2815

U.S. PATENT DOCUMENTS

Exam. Initials		Document Number	Date	Name	Class	Sub-class	Filing Date (if appropriate)
<i>JK</i>	AA	5104824	04/14/1992	Clausen Jr., et al.	437	90	
	AB	5094973	03/10/1992	Pang	437	67	
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

Exam. Initials		Document Number	Date	Country	Class	Sub-class	Translation Yes No
<i>JK</i>	AL	EP 0 588 747 A2	23/03/1994	Europe	H01L 21	76	X
	AM						
	AN						
	AO						
	AP						
	AQ						

OTHER ART (Including Title, Author, Date, Pertinent Pages, etc.)

Exam. Initials		Document Identification
<i>JK</i>	AR	Patent Abstracts of Japan, vol. 17, no. 174, April 5, 1993
<i>JK</i>	AS	Patent Abstracts of Japan, vol. 16, no. 390, August 19, 1992
<i>JK</i>	AT	

Examiner: J. Jackson Date Considered: 3/01

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication

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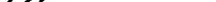
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Substitute for Form 1449A/PTO		Complete if Known	
 <small>OCT 10 2001</small> <small>(use as many sheets as necessary)</small>		Application Number	09/027,012
		Filing Date	02/18/98
		First Named Inventor	Kobayashi
		Group Art Unit	2815
		Examiner Name	Jerome Jackson Jr.
Sheet	1	of	Attorney Docket Number
			96790.P197D

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS					
Exam. Initials	Cite No.	Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication or Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		01175792 A	NEC Corp	7-12-89	
		63227087 A	Fujitsu Ltd.	9/21/88	
		02098985 A	Mitsubishi Electric Corp	4-11-90	
		02022880 A	Fujitsu Ltd	1-25-90	
		63046789 A	NEC Corp	2-27-88	
		03012984 A	Nippon Telegr & Teleph Corp	1-21-91	

Examiner Signature		Date Considered	10/01
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***EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²Applicant is to place a check mark here if English language Translation is attached.

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DCI 092001

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<p style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>Substitute for Form 1449A/PTO</p> <p>Use 10 copies (use as many sheets as necessary)</p> <p>Sheet 2 of 2</p>		Complete if Known	
		ATTORNEY NUMBER	
		09/027,012	
		Filing Date	
		02/18/98	
		First Named Inventor	
Kobayashi			
Group Art Unit			
2815			
Examiner Name			
Jerome Jackson Jr.			
		Attorney Docket Number	
		96790.P197D	

U.S. PATENT DOCUMENTS

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Examiner Signature		Date Considered	10/01
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01/13/97

Form PTO-1449 (Modified)		Atty Docket No. 96790.P197	Serial No. 08/534,333
List of Patents & Publications Statement (Use several sheets if necessary)		Applicant(s): Fuhihiko Kobayashi et al.	
		Filing Date: September 27, 1995	Group No.:

U.S. PATENT DOCUMENTS

Exam. Initials		Document Number	Date	Name	Class	Sub-class	Filing Date (if appropriate)
MX	AA	5,104,824	4/14/92	CLAUSEN, JR. et al.	437	90	
MX	AB	3,425,879	2/4/69	D.W. SHAW et al.	148	175	
	AC						
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	AH						
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	AJ						
	AK						

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Exam. Initials		Document Number	Date	Country	Class	Sub-class	Translation Yes No
MX	AL	EPA0261408	8/21/87	EUROPE	H01S	19	X
	AM						
	AN						
	AO						
	AP						
	AQ						

OTHER ART (Including Title, Author, Date, Pertinent Pages, etc.)

Exam. Initials		Document Identification
MX	AR	PATENT ABSTRACTS OF JAPAN, vol. 10, no. 186, June 28, 1986 & JPA61032587
MX	AS	PATENT ABSTRACTS OF JAPAN, vol. 7, no. 154, July 6, 1958 & JP58064086
MX	AT	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, pages 48-50

Examiner: M. KelleyDate Considered: 5/97

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication

Form PTO-1449 (Modified)		Atty Docket No. 96790.p197	Serial No. 08/534,333
List of Patents & Publications Statement <i>21</i>		Applicant(s): FUMIHIKO KOBAYASHI et al. <i>33</i>	
(Use several sheets if necessary)		Filing Date: 9/27/95	Group No.: 1109

U.S. PATENT DOCUMENTS

Exam. Initials		Document Number	Date	Name	Class	Sub-class	Filing Date (if appropriate)
<i>ML</i>	AA	5,094,973	3/10/92	PANG	437	67	
	AB						
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	AD						
	AE						
	AF						RECEIVED
	AG						<i>(APR 11 1997)</i>
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Exam. Initials		Document Number	Date	Country	Class	Sub-class	Translation Yes	No
<i>ML</i>	AL	EP-0 588 747 A2	8/24/93	EUROPE	H01L	76	X	
	AM							
	AN							
	AO							
	AP							
	AQ							

OTHER ART (Including Title, Author, Date, Pertinent Pages, etc.)

Exam. Initials		Document Identification
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Examiner: M. Keller Date Considered: 5/97

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P1907-A

FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO.	SERIAL NO.	
				#2		
LIST OF PRIOR ART CITED BY APPLICANT <i>(Use separate sheets if necessary)</i>				APPLICANT		
				FILING DATE	GROUP	
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER <i>SEARCHED & TRADEMAKED</i>	DATE	NAME	CLASS	SUBCLASS	
AA						
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FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
AL	KOKAI 63-31111	Feb. 9, 1988	Japan	-	-	YES NO
AM	KOKAI 63-287014	Nov. 24, 1988	Japan	-	-	
AN	KOKAI 63-311786	Dec. 20, 1988	Japan	-	-	
AO	KOKAI 1-175727	July 12, 1989	Japan	-	-	
AP						
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)						
MK	AR	"Digital Signal Regeneration with Side-Injection-Light-Controlled Bistable Laser Diode as a Wavelength Converter"				
		by K. Nonaka, et al. IEEE PHOTONICS TECHNOLOGY LETTERS, Vol. 7, No. 1, January 1995, pp. 29-31				
MK	AS	"VERY RAPID AND SELECTIVE EPITAXY OF InP AROUND MESAS OF HEIGHT UP TO 14 μm BY HYDRIDE VAPOUR PHASE EPITAXY" by				
		S. Lourdudoss, et al. 6th Int. Conf. on Indium Phosphide and Related Materials, Santa Barbara, (1994) pp. 615-618				
MK	AT	"PLANAR SURFACE BURIED-HETEROSTRUCTURE InGaAsP/InP LASERS WITH HYDRIDE VPE-GROWN Fe-DOPED HIGHLY RESISTIVE CURRENT-BLOCKING LAYERS" by S. Sugou, et al. ELECTRONICS LETTERS 6th November 1986 Vol. 22 No. 23 pp. 1214-1215				
		Copied from 10003493 on 03-02-2004				

NOTICE OF REFERENCES CITED

APPLICANT(S)

Kobayashi et al.

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*	DOCUMENT NO.	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
A						
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FOREIGN PATENT DOCUMENTS

*	DOCUMENT NO.	DATE	COUNTRY	NAME	CLASS	SUB-CLASS	PERTINENT SHTS. DWG.	PP. SPEC.
L								
M								
N								
O								
P								
Q								

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

Kobayashi et al. "Rigrowth of Sem. Insulating Iron doped In P..."